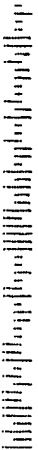


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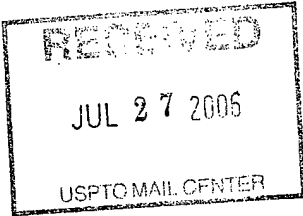
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AN EQUAL OPPORTUNITY EMPLOYER



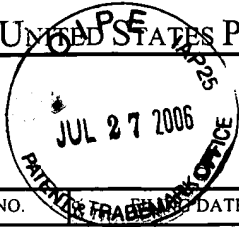
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APPLICATION NO.	INVENTOR'S NAME	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,201		03/16/2004	Ulun Karacaoglu	P18372	3759
25694	7590	07/05/2006		EXAMINER	
INTEL CORPORATION P.O. BOX 5326 SANTA CLARA, CA 95056-5326				TRAN, PABLO N	
				ART UNIT	PAPER NUMBER
				2618	

DATE MAILED: 07/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**BEST AVAILABLE COPY**

<b>Office Action Summary</b>	<b>Application No.</b> 10/802,201	<b>Applicant(s)</b> KARACAOGLU, ULUN	
	<b>Examiner</b> Pablo N. Tran	<b>Art Unit</b> 2618	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-15 is/are pending in the application.  
     4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
     a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-4, 11, and 13-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Lane et al. (6,978,121).

As per claims 1-3, and 11, Lane et al. disclosed a method for selecting a first antenna (fig. 1/no. 190) or a second antenna (fig. 1/no. 191) to provide a signal to a WLAN transceiver (fig. 1/no. 160) and using the antenna not selected to provide the signal to the WLAN transceiver for providing a signal for a Bluetooth transceiver (fig. 1/no. 120, col. 4/ln. 31-38).

As per claims 4 and 14, Lane et al. disclosed the uses of the first and second antennas that are for WLAN signaling to enable Bluetooth signaling in the wireless device (col. 3/ln. 63-67, col. 4/ln. 31-38).

As per claim 13, Lane et al. disclosed a switch (fig. 1/no. 180) to select the signal provided to the WLAN transceiver

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 5-10, 12, and 15 rejected under 35 U.S.C. 103(a) as being unpatentable over Lane et al. (6,978,121).

As per claims 5 and 9, Lane et al. does not specifically teach that the circuitries of the transceivers, switch, and controller are embedded on an integrated circuit. However, such is notoriously well known in the art that the examiner takes Official Notice of such. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to embed such circuitries on an integrated circuit, well-known, in order to reduce IC chip 's weight and size while provide a lighter mobile device.

As per claims 6 and 12, Lane et al. teach such antenna diversity to reduce signals transmission error but not specifically suggested that the antenna switching is base upon signal strength. However, such is notoriously well known in the art that the examiner takes Official Notice of such. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide such teaching, well known, to the dual-mode radio of Lane et al. to provide the best signals transmission.

As per claims 7-8, Lane et al. disclosed a WLAN (fig. 1/no. 160) and Bluetooth (fig. 1/no. 120) transceivers.

As per claims 10 and 15, Lane et al. is silent about a flash memory. However, such is notoriously well known in the art that the examiner takes Official Notice of such. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide a flash memory, well-known, the dual-mode radio of Lane et al. to allow for the expansion of supported services and devices, and to facilitate software upgrades and patches.

### ***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pablo Tran whose telephone number is (571)272-7898. The examiner normal hours are 9:30 -5:00 (Monday-Friday). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571)272-7899. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) System. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-directauspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic

Application/Control Number: 10/802,201


Page 5

Art Unit: 2618

Business Center (EBC) at 866-217-9197 (toll-free).

June 14, 2006

**PABLO N. TRAN**  
**PRIMARY EXAMINER**

A handwritten signature in black ink, appearing to be 'P. Tran', with a stylized, flowing script.

AV 2618

<b>Notice of References Cited</b>	Application/Control No. 10/802,201		Applicant(s)/Patent Under Reexamination KARACAOGLU, ULUN	
	Examiner Pablo N. Tran		Art Unit 2618	Page 1 of 2

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,978,121 B1	12-2005	Lane et al.	455/73
*	B	US-2004/0142693 A1	07-2004	Feder et al.	455/443
*	C	US-2002/0183087 A1	12-2002	Spencer et al.	455/550
*	D	US-2004/0192222 A1	09-2004	Vaisanen et al.	455/078
*	E	US-6,957,069 B2	10-2005	Shah et al.	455/436
*	F	US-2003/0104848 A1	06-2003	Brideglall, Raj	455/574
*	G	US-2002/0004375	01-2002	Spencer et al.	455/277.1
*	H	US-2005/0239498 A1	10-2005	Dorenbosch et al.	455/552.1
*	I	US-2004/0157613	08-2004	Steer et al.	455/446
*	J	US-2005/0212708 A1	09-2005	Fifield, David	343/702
*	K	US-2006/0116182 A1	06-2006	Bekritsky, Benjamin Jay	455/575.7
*	L	US-2005/0227661 A1	10-2005	Ginzburg, Boris	455/277.2
*	M	US-2005/0048972 A1	03-2005	Dorenbosch et al.	455/436

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



<b>Notice of References Cited</b>	Application/Control No. 10/802,201		Applicant(s)/Patent Under Reexamination KARACAOGLU, ULUN	
	Examiner Pablo N. Tran		Art Unit 2618	Page 2 of 2

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2005/0170862 A1	08-2005	Fukushima, Kazuya	455/556.1
*	B	US-6,560,443 B1	05-2003	Vaisanen et al.	455/73
*	C	US-2005/0099343 A1	05-2005	Asrani et al.	343/702
*	D	US-2003/0060218 A1	03-2003	Billerbeck et al.	455/501
*	E	US-2003/0219035 A1	11-2003	Schmidt, Dominik J.	370/478
*	F	US-6,957,081 B2	10-2005	Leyh et al.	455/553.1
*	G	US-7,046,649 B2	05-2006	Awater et al.	370/338
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

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